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AFRICAN AND LATIN AMERICAN RESILIENCE TO CLIMATE CHANGE (ARCC)

6th QUARTERLY REPORT (January - March 2013)

15 April 2013

This publication was produced for review by the United States Agency for International Development.
It was prepared by Tetra Tech ARD.

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DISCLAIMER

The views expressed in this publication do not necessarily reflect the views of the United States Agency for International Development or the United States Government.

CONTENTS

ACRONYMS AND ABBREVIATIONS.....	2
1.0 PROJECT SUMMARY	4
2.0 SUMMARY RESULTS FOR THE PERIOD	5
TASK AREA 1: DEVELOPMENT OF VULNERABILITY ASSESSMENTS METHODOLOGIES.....	6
TASK AREA 2: OUTREACH, TRAINING AND SUPPORT	10
TASK AREA 3: KNOWLEDGE DEVELOPMENT AND MANAGEMENT	11
TASK AREA 4: TECHNICAL SUPPORT TO USAID MISSIONS AND OPERATING UNITS	13
PROJECT MANAGEMENT AND ADMINISTRATION	13
3.0 FINANCIAL MANAGEMENT	14
4.0 MAJOR ACTIVITIES PLANNED FOR NEXT PERIOD	15
5.0 ANNEXES	17
ANNEX I: ARCC OUTPUTS.....	17

ACRONYMS AND ABBREVIATIONS

AFR	Africa Region
AM	Activity Manager
ACPC	African Climate Policy Centre
APS	Annual Program Statements
ARCC	African and Latin American Resilience to Climate Change
CCA	Climate Change Adaptation
CCAFS	Climate Change Agriculture and Food Security Program (CGIAR)
CGIAR	Consultative Group on International Agricultural Research
CIESIN	Center for International Earth Science Information Network
CO	Contracting Officer
COP	Chief of Party
COP 17	Seventeenth Conference of the Parties to the United Nations Framework Convention on Climate Change (UNFCCC)
COR	Contracting Officer's Representative
ETOA	Environmental Threats and Opportunities Assessment
FAO	United Nations Food and Agriculture Organization
FEWS NET	Famine Early Warning Systems Network
FESS	Foundation for Environmental Security and Sustainability
FGD	Focus Group Discussion
FTF	Feed the Future
GCAP	Global Climate Adaptation Partnership
GCC	Global Climate Change
GMP	Grants Management Plan
GoU	Government of Uganda
GoM	Government of Malawi

GUC	Grants Under Contract
IQC	Indefinite Quantity Contract
KII	Key Informant Interview
LAC	Latin America and the Caribbean Region
LDPG	Local Development Partner Group
LVI	Livelihood Vulnerability Index
M&E	Monitoring and Evaluation
NAPA	National Adaptation Program of Action
NGO	Nongovernmental Organization
PM	Project Manager
PMP	Performance Monitoring Plan
PRRGP	Property Rights and Resource Governance Program
SMTS	Subject Matter Technical Specialists
SOW	Scope of Work
STA/M	Senior Technical Advisor/Manager
UCT	University of Cape Town
USG	United States Government
UNDP	United Nations Development Programme
UNFCCC	United Nations Framework Convention on Climate Change
VA	Vulnerability Assessment
WRI	World Resources Institute

I.0 PROJECT SUMMARY

The African and Latin American Resilience to Climate Change (ARCC) project is a three-year program funded by the United States Agency for International Development (USAID) to provide technical, analytical, and project assistance, as well as capacity building to promote adaptation to climate change, in order to improve the ability of vulnerable populations to respond to climate challenges and safeguard economic growth. The Task Order for ARCC will focus on advancing the Economic Growth Objective within the USAID Foreign Assistance Framework by promoting adaptation to climate change and integration of adaptation into other economic investments, in order to safeguard and promote sustainable, climate-resilient growth. ARCC has the following goals/objectives:

- Promote sustainable economic growth through the development of vulnerability assessment methodologies and other analyses that provide information about the greatest climate change risks to sustainable growth and adaptation options;
- Promote improved governance through the development of analysis and methodologies that increase public understanding of potential climate change impacts and broaden civil society participation in decision-making;
- Address the needs of vulnerable populations, and include gender considerations, by developing best practices in analysis of risk and mitigation of climate change impacts on these populations; and
- Provide technical support to USAID missions and operating units by providing analysis, design, and evaluation support for activities related to adaptation.

To follow, the Task Order for ARCC consists of four activity areas with predefined tasks and deliverables:

- Task Area 1: Development of Vulnerability Assessments Methodologies;
- Task Area 2: Outreach, Training and Support;
- Task Area 3: Knowledge Development and Management; and
- Task Area 4: Technical Support to USAID Missions and Operating Units.

Under these Task Areas, key activities will include the provision of assessment methodologies to guide USAID programming of adaptation-related objectives; a vulnerability assessment tool to provide specific guidance into 'Feed The Future' planning for USAID programs; knowledge management support on topics that may range from evaluation of publicly available indicators of vulnerability to research to improve downscaled modeling outputs that are important for decision-making around adaptation; and technical assistance for field missions in Africa and to a lesser extent, the Latin America and Caribbean region. This Task Order is also expected to have the flexibility to address unforeseen support needs for the Africa Bureau and the Latin America and Caribbean Bureau (LAC).

ARCC will likely be asked to focus on the following geographic areas: *Africa*: Angola, Ethiopia, Kenya, Malawi, Mali, Mozambique, Rwanda, Senegal, Tanzania, and Uganda. *Africa Regional Missions*: East Africa, Southern Africa, and West Africa. *Latin America and Caribbean*: Colombia, Ecuador, Peru, Guatemala, Haiti, and Jamaica. *Latin America Regional Missions*: Central American, Andean and the Caribbean.

2.0 SUMMARY RESULTS FOR THE PERIOD

During the 6th Quarter, ARCC made marked progress on several fronts as it relates to vulnerability assessments. For the Uganda VA, ARCC conducted an Options Analysis Workshop in Kampala in late January. Forty-nine decision-makers and key stakeholders generated recommendations and options to improve resilience. ARCC also submitted the Uganda VA report to USAID for review.

In the Dominican Republic ARCC carried out the field research phase of the VA, holding focus groups, conducting interviews, and gathering climate data. The DR VA team also began data analysis.

Under the leadership of a new team leader, Dr. Lynnette Wood, the Malawi VA team made significant progress on the phenological review, value chain studies, and economic analysis. ARCC also shared with the USAID/Malawi Mission preliminary results and findings throughout the quarter.

The Senegal VA team refined the VA research design and developed a detailed work plan. Two members of the VA team traveled to Dakar to meet with partners to discuss the subcontract SOWs and fieldwork logistics. ARCC also held an Instrument Development to elaborate the data collection tools and methods as well as establish guidelines for conducting the fieldwork.

ARCC started to identify consultants to carry out the West Africa Vulnerability Assessment. ARCC continues to fine-tune the West Africa Background Paper. ARCC and FESS (subcontractor) met with USAID to further define the SOW for the Sahel Climate Change & Conflict Assessment.

Teleconferences between ARCC, USAID/Washington, and USAID Missions in Jamaica, Honduras, and Colombia were held to discuss the scope, timing, and breadth of potential and upcoming VAs.

ARCC helped organize three major meetings during the quarter. In February ARCC hosted the USAID Experts workshop “Building Public Sector Capacity to Engage in Climate Change Decision Making.” Academics, development professionals and government representatives discussed the use of information in climate change adaptation decision making in the agriculture sector. Also in February ARCC supported and participated in the Climate Change Training and AFR Technical Officers Meeting in Accra, Ghana. Lastly, in late March ARCC hosted an Experts Meeting on “Climate Change Vulnerability Assessments: Recent Approaches and Results.” This meeting brought together global programs and partners to evaluate vulnerability and risk assessment approaches and tools; share experiences; and identify critical gaps in conducting climate change vulnerability assessments.

On the small grants front, ARCC issued Requests For Applications (RFAs) and awarded grants to three African organizations. The successful grantees will produce papers on climate change adaptation planning at the community and local government levels. These first-time USAID grantees were supported by ARCC during the RFA process vis-à-vis three-day training held in Addis Ababa, Ethiopia.

ARCC continued to work on a series technical papers and assessments to USAID for reviews.

On the project management side, ARCC recruited and hire a new Operations Manager. ARCC continued to work to identify technical experts and team leaders for upcoming vulnerability assessments. ARCC also began a recruitment effort for a Publications Manager / Communications Expert to bolster ARCC’s support to the Knowledge Development and Management task area.

TASK AREA I: DEVELOPMENT OF VULNERABILITY ASSESSMENTS METHODOLOGIES

Activities that were completed under Task Area I include:

1. In January 2013, under the direction of Vulnerability Assessment Specialist, Patricia Caffrey, ARCC presented the **results and preliminary recommendations of the Uganda Vulnerability Assessment** to USAID/Uganda, the Ministry of Agriculture, Animal Industry and Fisheries (MAIFF), the Ministry of Water and Environment (MWE), the Ugandan research community, the Agriculture Donor's Groups and to key decision-makers and stakeholders. ARCC presented the vulnerability assessment findings to approximately 160 people, and feedback from USAID and Ugandan stakeholders was very positive.
2. Directly following the Uganda vulnerability assessment presentations, ARCC held an **Options Analysis Workshop** on January 31, 2013 in Kampala. Forty-nine decision-makers and key stakeholders from government, civil society and the research community attended. The Options Analysis served to generate awareness of the issues and potential implications of climate change on livelihoods and selected crops; improve understanding of constraints and opportunities for addressing adaptation; and identify potential adaptation strategies and develop recommendations. During the workshop, ARCC developed and shared scenarios which represented three distinct agro-ecological districts and based on the assessment findings. ARCC used the scenarios to help improve the participants' understanding of the unique circumstances related to climate change vulnerability – exposure, sensitivity and adaptive capacity, and generate recommendations and options to improve resilience. The options generated validated, supplemented and enriched the preliminary recommendations and options defined by the assessment team.
3. The **Uganda Vulnerability Assessment Draft Report** was submitted in early January. ARCC received comments from USAID in late January and a second draft was submitted at the end of March. Final comments and revisions are pending.
4. From January 21 to February 8, 2013 ARCC carried out the field research phase of the **Dominican Republic Vulnerability Assessment (DR VA)**. Following the scoping mission in the previous quarter, ARCC formulated the following research question:
 - How are current and projected climate change impacts – including changes in temperature and precipitation, shifts in frequency and intensity of severe weather events, and changes in surface and ground water quantity and quality – likely to affect the densely populated urban centers of Santo Domingo and Santiago as well as communities dependent on marine and coastal resources in Punta Cana, Samaná/Las Terrenas, and Monte Cristi?

Subset questions included: How has/will climate change impact surface water and marine resources? How will these impacts affect natural systems and society? How do/can people and institutions respond/adapt to these impacts?

Working in close coordination with the USAID/Dominican Republic and led by ARCC's Technical Advisor for Latin America Christine Mataya, the fieldwork was completed by a team of US, host country, and third-country nationals. Over a three-week period, the DR VA team met with nearly 100 people representing national and local government, civil society, the private

sector, and academia. ARCC conducted focus group discussions in selected communities as well as key informant interviews with government officials at the national and district levels, civil society policy makers, and sectoral leaders to gain an understanding of the institutional context within which to develop climate change adaptation policy and programming. Upon completion of the fieldwork, the DR VA team debriefed the USAID Mission on the results of the three-week visit and some preliminary findings.

5. Dr. Lynnette Wood replaced Scott McCormick as the team leader of the **Malawi Vulnerability Assessment** effective January 28, 2013. Ms. Jennifer Graham was also brought on board to serve as the deputy team leader on the same date.

After a review of the assessment status in February, ARCC revised and extended partner subcontracts and consulting agreements, and over the next few months Wood and Graham oversaw the completion of draft versions of reports contributing to various components of the assessment. These include a phenological screening of selected crops; the final three value chain studies (for a total of six); sector reports on fish, water resources and natural resources management/biodiversity; and summaries of the participatory rural assessment and key informant interview results. In March economic studies of six crops (maize, groundnuts, pigeon peas, cowpeas, sorghum and soybeans) were launched, and a draft of the first of these, maize, completed.

This quarter also saw the launch of Phase 2 of the climate information component of the assessment, as the University of Cape Town's Climate Systems Climate Systems Analysis Group was provided with the data from Malawi's Department of Climate Change and Meteorological Services necessary to refine near-term climate projections.

During this quarter, Dr. Wood, Ms. Graham and Vulnerability Assessment Specialist Dr. Lezlie Moriniere reviewed all of the above reports, plus additional reports submitted prior to January 28, totaling more than 1,000 pages of documentation. The three provided feedback and suggestions to the consultants and subcontractors to revise and improve their documents. Working in close collaboration with the USAID Senior Climate Change Advisor/Africa Bureau, Dr. Wood and Dr. Moriniere also prepared a brief PowerPoint presentation that was delivered via teleconference to USAID/Malawi on 18 March 2013. The PowerPoint presented highlights of the findings from the preliminary results submitted to date. Dr. Wood and Dr. Moriniere also prepared a more detailed Preliminary Results Report to supplement the PowerPoint. Intermediate drafts of this report were shared with the USAID Senior Climate Change Advisor/Africa Bureau, during the month of March, and feedback incorporated. The final version of the report was submitted by 31 March 2013.

In late April, core members of the ARCC and Malawi VA teams will travel to Lilongwe to present additional findings to the Mission and to other key stakeholders, and to conduct an Options Analysis workshop. During the Options Analysis workshop results from the Vulnerability Assessment will be used to design plausible scenarios that capture dynamics from each of the four studied sectors: agriculture, fisheries, water resources, and natural resources. The scenarios will be used to engage participants in a systematic analysis of feasible institutional and programmatic responses to the uncertain future of Malawi. The workshop will facilitate stakeholders to brainstorm and analyze intervention options that they believe will address the scenarios, prioritize interventions, and identify "champions" and suitable institutional "homes" for implementation.

The results from the workshop, together with the updated climate analysis, final value chain analyses, and completed economic analyses, will be integrated into a comprehensive, final VA report which is scheduled to be submitted to USAID on May 31st.

In late April, core members of the ARCC and Malawi VA teams will travel to Lilongwe to present additional findings to the Mission and to other key stakeholders, and to conduct an Options Analysis workshop. During the Options Analysis workshop results from the Vulnerability Assessment will be used to design plausible scenarios that capture dynamics from each of the four studied sectors: agriculture, fisheries, water resources, and natural resources. The scenarios will be used to engage participants in a systematic analysis of feasible institutional and programmatic responses to the uncertain future of Malawi. The workshop will facilitate stakeholders to brainstorm and analyze intervention options that they believe will address the scenarios, prioritize interventions, and identify “champions” and suitable institutional “homes” for implementation.

The results from the workshop, together with the updated climate analysis, final value chain analyses, and completed economic analyses, will be integrated into a comprehensive, final VA report which is scheduled to be submitted to USAID by the end of May.

6. Under the leadership of ARCC’s Africa Technical Advisor and the **Senegal VA** Team Leader David Miller and Deputy Team Leader Ryan Roberge, ARCC refined the VA research design and developed a detailed work plan to carry out the assessment. ARCC also developed the SOWs with the proposed implementing partners (“subcontractors”), which include the Senegalese Agricultural Research Institute (*Institut Sénégalais de Recherches Agricoles*, ISRA), the ecological monitoring center *Centre de Suivi Ecologique* (CSE), and the national aviation and meteorological agency (*Agence Nationale de l’Aviation Civile et de la Météorologie*, ANACIM). From March 25-29, 2013 Mr. Roberge and Livestock Coordinator Leif Brottem traveled to Dakar to meet with representatives of ISRA, ANACIM and CSE to review the proposed SOWs, discuss logistics of the fieldwork, develop work plans, and explain and discuss budgeting and contract negotiation. Over this same period of time the VA team reviewed and revised the phenological study entitled: *Potential Climate Change Impacts on the Productivity of Select Agricultural Crops in The ARCC Senegal Vulnerability Assessment Study Zone* in preparation for its review by Senegalese research partners and eventual inclusion in the final report.

One of the main activities of the VA is the crop modeling. During the quarter ARCC worked closely with Activity Manager, Tegan Blaine, to clarify how the crop modeling component might best be employed in the assessment. After extended discussions of the pros and cons of crop modeling in general, and specific crop models in particular, USAID/Washington ultimately approved the use of the CropWat model in the assessment. (NB: David Miller addressed many of these concerns in a review of crop modeling tools for USAID’s consideration, entitled: *Brief Description of Selected Crop Modeling Tools & Applications* (later revised on March 25th)).

ARCC held an Instrument Development workshop on March 6-8, 2013 with key members of the VA team, including Team Lead David Miller, Deputy Team Lead Ryan Roberge, Climate Scientist Sylwia Trzaska, Livestock Coordinator Leif Brottem, and Fieldwork Technical Advisor, Timothy Finan. During the workshop, the Senegal VA team elaborated the sampling frame, household questionnaires, focus group and key informant guides, and guidelines for conducting the fieldwork. WRI also provided input on the draft Key Informant Interview guide. Mr. Miller and Mr. Finan continue to work on refining the field research instruments and protocols.

CIESIN's Senior Research Associate Sandra Baptista commenced research for the literature review, which will focus on local responses to climate variability and extreme events in eastern Senegal. ARCC also developed the SOW for WRI's desktop study on institutions and climate variability and extreme events in eastern Senegal. WRI's contribution is being spearheaded by Heather McGray.

David Miller, ARCC Chief of Party Cary Farley, and AFR Activity Manager Tegan Blaine made a call with USAID/Senegal on March 19, 2013 to provide an update USAID/Senegal on ARCC's progress of the VA. The Mission noted no concerns.

7. In January, ARCC began the process of identifying candidates for the **West Africa Vulnerability Assessment** and contacted a number of viable candidates. In March USAID sent initial concept papers for the West Africa and Sahel assessments for ARCC review. It was concluded that the West Africa and Sahel assessments would be merged into integrated activity: the West Africa Vulnerability Assessment. Early in the next quarter ARCC will plan for a scoping mission to USAID/West Africa.

In an effort spearheaded by CIESIN, ARCC also submitted the Background Paper on Regional Climate Change Vulnerability Assessment for West Africa.

ARCC subcontractor, Foundation for Environmental Security & Sustainability (FESS) also completed the development of the SOW development for the Climate Change & Conflict Assessment, which is intended to build upon the research and findings of their previous case studies on climate-conflict linkages and complement the findings of the West Africa VA. FESS's work will focus on three separate geographic case studies: 1) Burkina Faso and Niger; 2) Senegal and perhaps Mali; and 3) major urban centers of West Africa (Accra, Lagos and TBD). During the next quarter ARCC will submit the final subcontract to USAID for approval.

8. On March 15, 2013 ARCC's Technical Advisor for Latin America, Christine Mataya and USAID Activity Manager for the LAC region Christine Pendzich held teleconferences with USAID Mission staff in **Jamaica and Honduras**. The purpose of these calls was to share with the Missions what services ARCC provides as well as learn what additional support the Missions sought. For USAID/Jamaica one of the key areas of interest is ARCC's assistance with a workshop that will bring key government stakeholders together so that they can coordinate adaptation planning. Both USAID/Honduras and USAID/Jamaica also demonstrated a keen interest in conducting vulnerability assessments. ARCC suspects that some of these activities, if approved by USAID/Washington, will commence in the next quarter.
9. Cary Farley, Christine Mataya, and Christine Pendzich also had a teleconference with USAID/Colombia to begin planning for **Colombia Vulnerability Assessment**. It is expected that a scoping Mission will take place during the next quarter.

TASK AREA 2: OUTREACH, TRAINING AND SUPPORT

Activities that were completed under Task Area 2 include:

1. ARCC Technical Specialist Matt Sommerville led ARCC in hosting the USAID Experts Workshop entitled “Building Public Sector Capacity to Engage in Climate Change Decision Making,” which was held in Arlington, VA on February 25-26, 2013. ARCC hosted a group of thirty-five academics, development professionals and host country government representatives to discuss the use of information in climate change adaptation decision making in the agriculture sector. The workshop presentations addressed the practical experiences of project implementers and government representatives in using information to make analytical and science driven decisions on adaptation, as well as the challenges of communicating climate change relevant information. By-in-large, participants rejected the notion that there is a common set of information or a single set of tools required for adaptation decision making even within an individual sector, like agriculture. However, key takeaways included the need to focus on specific decision contexts and to start with user needs. Participants discussed the appropriate role of boundary organizations and the need for decision makers to have “honest brokers” of information. Others highlighted the importance of finding existing processes to build information off of, such as the FEWSNET datasets or the World Food Program’s Vulnerability Indices. Useful information was described to be information that is: 1) salient; 2) understandable; 3) unbiased; 4) of sufficient depth; 5) timely; 6) scientifically credible; and 7) accompanied by a characterization of its uncertainty. ARCC produced a two-page workshop summary with the key takeaways learned as a result of the meeting.
2. In close coordination with the USAID Africa Bureau (AFR), ARCC helped USAID to organize and facilitate the AFR Climate Change Training and Technical Officers Meeting in Accra, Ghana, which was held February 4-9, 2013. A total of 48 participants attended both the training and regional meeting with multi-sectoral representation from country and regional USAID Missions throughout Africa as well as the Africa Bureau, the E3, GCC, DCHA/PPM and the Bureau of Food Security Offices from DC. ARCC consultant Gary Forbes facilitated both sessions. The two day training covered an overview of climate change and sectoral impacts, integration of climate change with other sectors, monitoring and reporting, and use of GIS. The two-day regional meeting introduced participants to the latest developments and guidance related to climate change programming within USAID and shared relevant experiences in implementing climate change assessments and programs over the past year. ARCC’s participation in this event was on several levels. ARCC’s Operations Manager Roberto Prado spearheaded the logistics for the conference space and participant lodging. ARCC consultant Gary Forbes served as the facilitator. Vulnerability Assessment Specialist Patricia Caffrey presented on the findings from the Uganda vulnerability assessment. Lastly ARCC’s Climate Scientist Sylwia Trzaska led a plenary session on climate analysis and the reliability of climate modeling prediction.
3. ARCC hosted an Experts Meeting on “Climate Change Vulnerability Assessments: Recent Approaches and Results” from March 27-28, 2013. The purpose of the meeting was to bring together global programs and partners to review and evaluate vulnerability and risk assessment approaches and tools; to share experiences and lessons learned; identify critical gaps in conducting climate change vulnerability assessments to date; and determine how to promote the use of vulnerability assessment findings in policy and practice. Represented at the meeting were diverse organizations and programs including USAID, DFID, The State Department, International Institute for Sustainable Development, CARE, Catholic Relief Services, USAID’s Mekong ARCC Project, ICF International, Michigan State University, and the University of Cape

Town in South Africa as well as ARCC partners, Center for International Earth Science Information Network and the World Resources Institute. Facilitated by Gary Forbes, USAID, ARCC and the Expert Meeting participants hailed the meeting a huge success. As a next step, ARCC will develop and distribute a meeting report summarizing key takeaways.

TASK AREA 3: KNOWLEDGE DEVELOPMENT AND MANAGEMENT

Activities that were completed under Task Area 3 include:

- I. ARCC made a significant amount of progress on the development of the small grants program during the quarter. On January 30, 2013, ARCC issued four RFAs to distinct African Climate Policy Centre (ACPC) partner organizations. The RFAs were directed to organizations in Burkina Faso, Ghana, Kenya, and the Gambia to conduct research on climate-related impacts and adaptation planning both at the community and the local governmental levels. As this was the first time these organizations would be preparing a USAID grant proposal, ARCC provided support in proposal preparation. From February 13 - 15, 2013 Deputy Chief of Party Kelly Miller and Grants Manager Mauricio Castro traveled to Addis Ababa to conduct a three-day with the potential grantees on the USAID small grants program and the ARCC project; proposal and the budget development; and USAID rules and regulations. With ACPC's assistance, all four organizations submitted complete applications by March 1, 2013. As a result of ARCC's evaluation and USAID's final approval (March 26, 2013), three out of four applications were accepted:
 - **Grant Title:** Household and Community Experiences and Perceptions on Climate Change Impacts due to droughts, and Expectations on Policy Interventions in Sahel Region, Northern Burkina Faso
Grantee: Association pour la Gestion de l'Environnement et le Développement (AGED)
Grant Value: \$146,881
 - **Grant Title:** Climate Change and Agricultural Adaptation Measures in the Transition Zone of Mid-Ghana
Grantee: Multi-Features and Capacity-Enhancing Services
Grant Value: \$148,913
 - **Grant Title:** Household and Community Experiences and Perceptions on Climate Change Impacts due to Floods, and Expectations on Policy Interventions in Budalangi, Western Kenya
Grantee: Multifaceted Research and Development Centre
Grant Value: \$149,576

To assist the grantees in the proper technical and financial administration of the grants, in the next quarter ARCC will hold a second training workshop focusing on grant agreement compliance, USAID procurement process, documentation retention, technical implementation, financial reporting, and grant close-out.

2. ARCC submitted to USAID for review a total of seven (7) new or revised technical reports or fact sheets. These are:
 - Increase Nutrition Specific Interventions (Fact Sheet)
 - Analyzing Climate Change Adaptation Options Under Uncertainty

- Analyzing Climate Change Adaptation Options Using Multi-Criteria Analysis
 - Improving Vulnerability Assessment and Climate Change Adaptation by Applying Impact Assessment Processes - Ten Principles (Summary Paper)
 - Uganda Climate Change Vulnerability Assessment Report. Multiple rounds of comments and revisions were completed during the quarter. Final comments and the report are expected during the next quarter.
 - Background Paper on Vulnerability Assessment Methodology
 - USAID Workshop Summary On: Information & Capacity for Adaptation Decision Making in Agriculture
3. There are eleven (11) papers and nine (9) fact sheets still under review by USAID. A detailed list can be found in Annex I.
4. Detailed below is a list and the status of several knowledge products ARCC continued to work on during the quarter:
- Integrating Climate Change Adaptation into Biodiversity and Forestry Assessments and Programs. Comments from USAID have been reviewed by Bruce Byers. A final draft is expected during the first part of the next quarter.
 - DRR and CCA Synergy in USAID/E Programming. Comments from the Mission and USAID/W were reviewed by Lezlie Moriniere with a next draft expected by April 10.
 - Climate Change and Conflict in Africa and Latin America: Findings and Preliminary Lessons from Uganda, Ethiopia. Comments from USAID were received and reviewed by Jeff Stark. There are several comments which require clarification and ARCC is currently working with the author to review and address those comments.
 - Background Paper: Regional Climate Change Vulnerability Assessment for West Africa. Multiple drafts were completed by Sandra Baptista and team during the quarter. The final editing and layout is being completed with the final draft expected by April 12.
 - Malawi Vulnerability Assessment Report. A series of sub-chapters were provided to the Mission during the quarter.
 - Design and Use of Composite Indices in Assessments of Climate Change Vulnerability and Resilience. Sandra Baptista provided a revised draft on January 10. The draft was shared with USAID and will be expanded on in several areas. It is expected that the final draft will be submitted to USAID in the first part of the next quarter.
 - Spatial Vulnerability Assessments. Under the direction of CIESIN's Alex de Sherbinin and Sandra Baptista, ARCC completed a first draft of the Spatial Vulnerability Assessment report on January 18. Comments were provided back to CIESIN and it is expected that a final draft will be shared with USAID in the next quarter.
 - Climate Change and Agriculture Interventions (Overview) was further revised and will be shared with USAID during the next quarter as will the Climate Change Issues Affecting Small Holder Agriculture (a.k.a., Agricultural Interventions Matrix) itself.
 - Summary Report from the Experts Meeting on Climate Change Vulnerability and Risk Assessments. A two page summary report and more comprehensive full report are expected during the first part of the next quarter.
 - Summary Report from the Experts Meeting on Information & Capacity for Adaptation Decision Making in Agriculture. Based on feedback received from USAID, ARCC continued to work on revisions of the two-page summary detailing key takeaways from the meeting.

TASK AREA 4: TECHNICAL SUPPORT TO USAID MISSIONS AND OPERATING UNITS

Activities that were completed under Task Area 4 include:

1. Under the leadership of ARCC consultant Teresa Kamara, in March 2013 ARCC began to provide USAID with technical support in evaluating the organizational capacity and opportunities for climate change adaptation investments in Kenya. ARCC will conduct an institutional analysis of capacity and gaps among organizations in Kenya working on climate change adaptation, including the priorities of other donors as well as identify specific recommendations of investment opportunities at the national level, in devolution, and specifically in biodiversity and provision of water and sanitation resources. The assignment is expected to be completed in mid-May 2013.
2. USAID requested interest in also conducting an institutional analysis for climate change adaptations in Rwanda. This assignment is expected to take place in the next quarter.

PROJECT MANAGEMENT AND ADMINISTRATION

The following are key project management and administration activities which took place during the reporting period.

- Hired new Operations Manager Michael Wasson. ARCC is currently recruiting for a replacement candidate for the Technical Advisor for Latin America as well as Team Leaders for upcoming LAC vulnerability assessments.
- Identified team leader and technical experts for the West Africa regional vulnerability assessment.
- Revisited ARCC's budgeting tool to ensure proper reporting of Africa Bureau and LAC Bureau expenses.
- Identified and hired short term technical assistance (STTA) for the Senegal VA.
- Conducted logistics and mobilized international and domestic participants for two Experts Meetings: 1) Building Public Sector Capacity to Engage in Climate Change Decision Making and 2) Climate Change Vulnerability Assessments: Recent Approaches and Results.
- Managed for outputs from subcontractors – ACDI/VOCA, CIESIN and the World Resources Institute (WRI).
- Commenced the recruitment process for a Publications Manager / Communications Specialist to assist ARCC in editing, writing, and reviewing ARCC publications and communications materials.

3.0 FINANCIAL MANAGEMENT

TETRA TECH ARD African and Latin American Resilience to Climate Change (ARCC) Contract #: AID-OAA-TO-11-00064		
<u>TOTAL BUDGET SUMMARY BY YEAR</u>		
	Approved Budget	Actuals Through March 31, 2013
Total Direct Labor		
Salary and Wages	1,905,503	806,666
Fringe Benefits	703,705	297,901
STTA/Consultants	758,510	289,822
Grants Under Contract	1,000,000	-
Subcontracts	5,065,209	1,529,269
Program Activity Costs	91,205	65,538
Other Direct Cost	341,404	161,223
Travel, Transportation, and Per Diem	821,975	397,269
Equipment and Supplies	110,562	45,180
Indirect Costs	1,616,165	678,424
Fixed Fee	620,712	213,556
Total Est. Cost Plus Fixed Fee	13,034,950	4,493,849
ARCC Program Area	Actuals Through March 31, 2013	
Operations	\$ 2,634,596	
Latin America & Caribbean	\$ 227,405	
Africa	\$ 1,631,848	
TOTAL	\$ 4,493,849	

ARCC will undertake a budget analysis exercise during the next quarter and will review expenditures to date as well as estimated costs for upcoming program activities. ARCC will share an updated budget projection with USAID early next quarter.

4.0 MAJOR ACTIVITIES PLANNED FOR NEXT PERIOD

ARCC expects to initiate vulnerability assessments in up to three countries/regions – West Africa region, Colombia, and Honduras -- during the next quarter. Our activity plan for the next quarter is as follows:

Activity Plan				
Task Areas	Activities	Lead ARCC Team Member/Partner	Date/Month	Output
TA 1	Commence field work for Senegal VA, complete literature review, and finalize negotiations with subcontractors.	David Miller	April - June	Senegal VA Draft Report
TA 1	Complete cross-analysis of field data and climate data for Dominican Republic (DR). Submit draft DR VA report to USAID.	Patricia Caffrey	April – May	Dominican Republic Draft VA Report
TA 1	Submit draft Malawi VA report to USAID and conduct Options Analysis workshop in-country.	Lynnette Wood	April - May	Malawi VA Draft Report
TA 1	Finalize the Uganda VA Report (pending USAID comments)	Patricia Caffrey	June	Uganda VA Report
TA 1	Conduct pre-scoping trip for Colombia VA	Cary Farley	May	Pre- Scoping Trip Report
TA 1	Commence literature review and field work for the West Africa VA.	David Miller	May - June	Scoping Trip Report
TA 2	Commence preparing logistics for the LAC Technical Officers Meeting	Michael Wasson	May – June	Coordination and Logistics Report Out
TA 3	Produce technical papers and policy briefs on climate change & governance, climate change & ecosystem management.	WRI	May - June	Policy Briefs/TBD

TA 3	Finalize Spatial Vulnerability Assessments	CIESIN	May	Assessment
TA 3	Finalize West Africa Background Paper	CIESIN	April	Technical Paper
TA 3	Commence research and writing technical paper on Downscaling Climate Projections	CIESIN	April - June	Technical Paper
TA 3	Case Studies – Climate Change and Conflict: New Vulnerabilities in Africa and Latin America / Caribbean	FESS	April - June (ongoing)	Case Studies
TA 2	Finalize workshop report for Experts Meeting: Climate Change Vulnerability Assessments: Recent Approaches and Results.	Leif Kindberg	April – May	Workshop Report
TA 2	Finalize summary workshop report Information & Capacity for Adaptation Decision Making in Agriculture	Matt Sommerville	April - May	Workshop Report
TA 4	Technical support to the USAID/Kenya Mission on evaluating the organizational capacity and opportunities for climate change adaptation investments in Kenya	David Miller / Teresa Kamara (consultant)	April – May	Institutional Analysis Assessment Report
TA 4	Technical assistance to the USAID/Rwanda Mission to evaluate institutional capacity	Matt Sommerville	April - May	Institutional Analysis Assessment Report
TA 4	As requested, support USAID Missions in initiating literature reviews, developing case studies, and conducting assessments for USAID Missions.	ARCC - TBD	Ongoing	TBD

5.0 ANNEXES

ANNEX I: ARCC OUTPUTS

OPERATIONS				
	Title	Date Submitted	Feedback Requested By	USAID Final Approval
11	Quarterly Report 1 for Program Year 2: October 1 - December 31, 2013	15-Jan-13	29-Jan-13	
10	Adaptation Futures Conference Report	20-Sep-12	28-Sep-12	
9	Quarterly Report 4, July 1 - September 30, 2012	3-Nov-12	3-Nov-12	16-Nov-12
8	ARCC Pipeline Analysis and Budget Re-Alignment Request	10-Oct-12		21-Nov-12
7	Quarterly Report 3, April 1 - June 30, 2012	15-Jul-12		20-Sep-12
6	Communications and Knowledge Management Strategy	27-Sep-12		3-Dec-12
5	Quarterly Report 2, January 1 - March 31, 2012	15-Apr-12		1-Jun-12
4	Performance Monitoring Plan	23-Jul-12		23-Sep-12
3	Quarterly Report 1, September 28 - December 31, 2011	15-Jan-12		1-Jun-12
2	First Annual Work Plan	3-Nov-11		1-Jun-12
1	Grants Management Plan	11-May-12		14-May-12
PROGRAM				
	Title (Illustrative)	Date Submitted	Feedback Requested By	Approved for Distribution
47	Gender and Climate Change (Fact Sheet)			
46	DRR and CCA Synergy in USAID/E Programming	8-Dec-12	22-Dec-12	
45	Increase Nutrition Specific Interventions (Fact Sheet)	18-Jan-13	1-Feb-13	
44	Investigate Crop Insurance Schemes (Fact Sheet)	21-Dec-12	9-Jan-13	
43	Improve Extension Services (Fact Sheet)	22-Dec-12	10-Jan-13	
42	Expansion of Integrated Pest Management (Fact Sheet)	23-Dec-12	11-Jan-13	
41	Expansion of Income Generating Activities (Fact Sheet)	14-Dec-12	28-Dec-12	
40	Improved Post Harvest Handling and Storage (Fact Sheet)	14-Dec-12	28-Dec-12	
39	Promoting Conservation Agriculture (Fact Sheet)	14-Dec-12	28-Dec-12	
38	Strengthening Agricultural Value Chains (Fact Sheet)	14-Dec-12	28-Dec-12	
37	Supporting Mixed Farming Systems (Fact Sheet)	14-Dec-12	28-Dec-12	
36	Analyzing Climate Change Adaptation Options Under Uncertainty	25-Jan-13	8-Feb-13	
35	Climate Change and Conflict in Africa and Latin America: Findings and Preliminary Lessons from Uganda	21-Dec-12	11-Jan-13	
34	Background Paper: Regional Climate Change Vulnerability Assessment for West Africa	1-Feb-13	8-Feb-13	
33	Ensuring Condition-Appropriate Seed (Climate Change Fact Sheet, 2 pages)	19-Nov-12	7-Dec-12	
32	Business As Usual			
31	Stakeholder Participation in Climate Change Adaptation Planning (Executive Summary, 4 pages)	19-Nov-12	7-Dec-12	
30	Stakeholder Participation in Climate Change Adaptation Planning	16-Oct-12	7-Dec-12	
29	Analyzing Climate Change Adaptation Options Using Multi-Criteria Analysis	25-Jan-13	8-Feb-13	
28	Climate Change and Nutrition Action Plan	1-Oct-12		
27	Adaptation and Governance (working title)	14-Dec-12	28-Dec-12	
26	Climate Change and Agriculture Interventions (Overview)	14-Dec-12	28-Dec-12	
25	Climate Change Issues Affecting Small Holder Agriculture (a.k.a., Agricultural interventions Matrix)	1-Oct-12	22-Oct-12	
24	Senegal Vulnerability Assessment Report (Full)			
23	Malawi Vulnerability Assessment Report (Full)			
22	Design and use of Composite Indices in Assessments of Climate Change Vulnerability and Resilience	4-Jan-13	18-Jan-13	
21	Spatial Vulnerability Assessments			
20	Downscaling Climate Projections - Review of Existing Methods			
19	Downscaling Climate Projections - Standardized Approaches to Downscaling Climate Projections			
18	Uganda Vulnerability Assessment Report (Full)	24-Jan-13		
17	Methods for Economic Analysis of Climate Change Adaptation Interventions (Executive Summary, 3 page)	19-Nov-12	7-Dec-12	
16	Methods for Economic Analysis of Climate Change Adaptation Interventions	19-Nov-12	7-Dec-12	
15	From Assessment to Implementation Fact Sheet: Approaches for Adaptation Option Analysis (3 pages)	19-Nov-12	7-Dec-12	
14	From Assessment to Implementation: Approaches for Adaptation Option Analysis	19-Nov-12	7-Dec-12	
13	Integrating Climate Change Adaptation into Biodiversity and Forestry Assessments and Programs	18-Jan-13	1-Feb-13	
12	Improving Vulnerability Assessment and Climate Change Adaptation by Applying Impact Assessment Pro	4-Jan-13	18-Jan-13	
11	Improving Vulnerability Assessment and Climate Change Adaptation by Applying Impact Assessment Processes - Ten Principles			1-Oct-12
10	Evaluating Networks Frameworks to Support Decision Making (Four page summary)	26-Nov-12	17-Dec-12	
9	Analysis of Climate Change Adaptation Networks and Institutions in Africa (Report)	26-Nov-12	17-Dec-12	
8	Analysis of Climate Change Adaptation Networks and Institutions in Africa (Database)			24-Sep-12
7	Vulnerability Assessment Options: A Review of Approaches	4-Jan-13	25-Jan-13	
6	Background Paper on Vulnerability Assessment Methodology - Full	27-Jun-12		
5	ARCC Program Briefs (two audiences)			
4	AFR-GCC Meeting (Addis)	8-Apr-12		
3	COP 17 Trip			
2	Expert's Meeting Report - Summary	15-May-12		
1	Expert's Meeting Report - Full			

Color Key	
	= Forthcoming from ARCC
	= Action Requested by USAID
	= Priority Action Requested by USAID

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